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What is claimed is:

1. A method for creating and writing defect management information of an information recording medium, comprising the steps of:

5 (a) detecting the presence of defective area in an information recording medium based on data reproduced from the information recording medium;

(b) determining whether to move the data on the detected defective area into a replacement area; and

10 (c) creating and writing the information signifying whether the replacement of the detected defective area is made or not.

2. A method according to claim 1, wherein said step (a) comprises the steps of:

15 detecting the number of errors in the read-out of physical location information, which is recorded several times repeatedly for every prescribed area on the information recording medium, and/or the number of error bytes in one row which is produced from the encoding of each ECC; and

20 determining the presence of defective area in the information recording medium by comparing the detected number of errors with a pre-specified reference number of errors.

3. A method according to claim 1, wherein said step (b) determines

the movement of the data recorded in the detected defective area into the replacement area based on whether or not the data on the defective area is real-time data.

5           4. A method according to claim 1, wherein said step (c) writes the location information of the detected defective area to other information area which is separated from a pre-specified defect management information area.

10           5. A method according to claim 4, further comprising the step of:

          updating the defect management information in said pre-specified area by moving said location information of the defective area in said other information area into said pre-specified defect management information area, when erasing of data recorded in the area containing the defective area is requested.

          6. A method for creating and writing defect management information of an information recording medium, comprising the steps of:

20           (a) detecting the presence of defective area in an information recording medium based on data reproduced from the information recording medium; and

          (b) determining whether to move the data recorded on the detected defective area into a replacement area based on type of the data.

7. A method according to claim 6, wherein the data type in said step (b) is classified by whether or not the data is real-time data.

8. A method according to claim 6, further comprising the step  
5 of:

creating and writing the information signifying whether the replacement of the detected defective area is made or not.

9. A method according to claim 8, wherein said creating/writing  
10 step writes the location information of the detected area to other information area which is separated from a pre-specified defect management information area.

10. A method according to claim 9, further comprising the step  
15 of:

updating said pre-specified defect management information by moving said location information on the defective area in said other information area into said pre-specified defect management information area, when erasing of data recorded in the area containing the defective  
20 area is requested.

11. An information recording medium, comprising of:

a first area for storing defect management information which is used for controlling the replacement of a defective area with a

replacement area; and

a second area for storing the information signifying that the replacement of the defective area is based on the type of the data recorded on the defective area.

5

12. An information recording medium according to claim 11, wherein said first area and said second area are located in either lead-in area or lead-out area .

10 13. An apparatus for creating and writing defect management information of an information recording medium, comprising:

a means for detecting the presence of defective area in an information recording medium based on data reproduced from the information recording medium;

15 a means for determining whether to move the data on the detected defective area into a replacement area; and

a means for creating and writing the information signifying whether the replacement of the detected defective area is made or not.

20 14. An apparatus according to claim 13, wherein said detecting means comprises:

a means for detecting the number of errors in the read-out of physical location information, which is recorded several times repeatedly for every prescribed area on the information recording

medium and/or the number of error bytes in one row which is produced from the encoding of each ECC; and

a means for determining the presence of defective area in the information recording medium by comparing the detected number of errors with a pre-specified reference number of errors.

15. An apparatus according to claim 13, wherein said determining means determines the movement of the data recorded in the detected defective area into the replacement area based on whether or not the data on the defective area is real-time data.

16. An apparatus according to claim 13, wherein said creating/writing means writes the location information of the detected defective area to other information area which is separated from a pre-specified defect management information area.

17. An apparatus according to claim 16, further comprising a means for updating the defect management information in said pre-specified area by moving said location information on the defective area in said other information area into said pre-specified defect management information area, when erasing of data recorded in the area containing the defective area is requested.

18. An apparatus creating and writing defect management

information of an information recording medium, comprising:

a means for detecting the presence of defective area in an information recording medium based on data reproduced from the information recording medium; and

5 a means for determining whether to move the data recorded on the detected defective area into a replacement area based on the type of the data.

10 19. An apparatus according to claim 18, wherein the data type is classified by whether or not the data is real-time data.

20. An apparatus according to claim 18, further comprising:  
a means for creating and writing the information signifying whether the replacement of the detected defective area is made or not.

15 21. An apparatus according to claim 20, wherein said creating/writing means writes the location information of the detected defective area to other information area which is separated from a pre-specified defect management information area.

20 22. An apparatus according to claim 21, further comprising a means for updating said pre-specified defect management information by moving said location information on the defective area in said other information area into said pre-specified defect management information

area, when erasing of data recorded in the area containing the defective area is requested.